

=> file reg; d stat que 14
FILE 'REGISTRY' ENTERED AT 17:29:24 ON 02 JUN 2006
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STRUCTURE FILE UPDATES: 1 JUN 2006 HIGHEST RN 886490-27-3
DICTIONARY FILE UPDATES: 1 JUN 2006 HIGHEST RN 886490-27-3

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

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<http://www.cas.org/ONLINE/UG/regprops.html>

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L1      STR
      9      11     12
      G1      O      O
      |      ||      ||
      2      3      4      5      6      7      8
G1---N---Ak---G3---C---G4---C---G3
  1   |   3   4   5   6   7   8
      G2
      10

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VAR G1=AK/13
VAR G2=AK/13/14
VAR G3=O/N
REP G4=(1-20) A
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 14
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 13
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L2 SCR 2040

~~L14~~ 2675 SEA FILE=REGISTRY SSS FUL L1 AND L2

100.0% PROCESSED 456166 ITERATIONS
SEARCH TIME: 00.00.17

2675 ANSWERS

=> file caplus; d que nos l10; d que nos l12
FILE 'CAPLUS' ENTERED AT 17:29:39 ON 02 JUN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 2 Jun 2006 VOL 144 ISS 24
FILE LAST UPDATED: 1 Jun 2006 (20060601/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

L1	STR
L2	SCR 2040
L4	2675 SEA FILE=REGISTRY SSS FUL L1 AND L2
L5	2863 SEA FILE=CAPLUS ABB=ON PLU=ON L4
L9	462 SEA FILE=CAPLUS ABB=ON PLU=ON GAS? (3A) HYDRAT? (3A) INHIBIT?

~~L10~~ 2 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L9

L1	STR
L2	SCR 2040
L4	2675 SEA FILE=REGISTRY SSS FUL L1 AND L2
L5	2863 SEA FILE=CAPLUS ABB=ON PLU=ON L4
L11	21269 SEA FILE=CAPLUS ABB=ON PLU=ON CORROSION INHIBITORS+PFT/CT
L12	4 SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND L11

=> s l10 or l12
~~L14~~ 4 L10 OR L12

=> d ibib ed abs hitstr hitind l14 1-4

L14 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:700323 CAPLUS
 DOCUMENT NUMBER: 141:209796
 TITLE: Betaines and quaternary salts as corrosion
 inhibitors and natural gas
 hydrate inhibitors with improved
 water solubility and biodegradability
 INVENTOR(S): Dahlmann, Uwe; Feustel, Michael
 PATENT ASSIGNEE(S): Clariant GmbH, Germany
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1450004	A1	20040825	EP 2004-2387	20040204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10307729	B3	20040826	DE 2003-10307729	20030224
NO 2004000582	A	20040825	NO 2004-582	20040209
US 2004163306	A1	20040826	US 2004-783188	20040220
PRIORITY APPLN. INFO.:			DE 2003-10307729	A 20030224

OTHER SOURCE(S): MARPAT 141:209796

ED Entered STN: 27 Aug 2004

AB Natural gas hydrate inhibitors are compds.

of general formula R1R2R3N+-B-X-C(:O)-D-C(:O)-Y-R4, in which: (1) R1,R2 = C1-22-alkyl, C2-22-alkenyl, C6-30-aryl, or C7030-alkylaryl, (2) R3 = C1-22-alkyl, C2-22-alkenyl, C6-30-aryl, or C7-30-alkylaryl, -CHR5-COO-, or -O-, (3) R4 = M, H, or C1-100-heteroatom-containing substituent (M is a cation), (4) B is optionally substituted C1-10-alkyl, (5) D = D = substituted or unsubstituted C1-600-heteroatom group, (6) X,Y = independently -O- or -NR6-, and (7) R5,R6 = H, C1-22-alkyl, C2-22-alkenyl, C6-30-aryl, or C7-300-alkylaryl. The compds. are typically prepared by conversion of a corresponding alkenylsuccinic anhydride with a N,N-dialkylaminoalkanol (especially (N,N-dialkylamino)ethanolamine), to give

the mono- or bisderiv., which is then quaternized. The compds. also have use as corrosion inhibitors.

IT 742087-35-0P 742096-64-6P 742096-67-9P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(corrosion inhibitor and natural gas
 hydrate inhibitor; betaine inner salts as corrosion
 inhibitors and natural gas hydrate
 inhibitors with improved water solubility and biodegradability)

RN 742087-35-0 CAPLUS

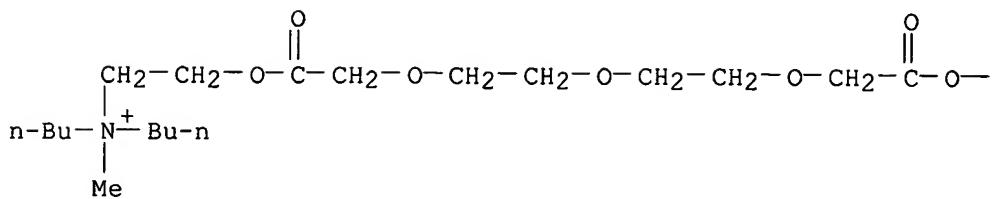
CN 3,6,9,12,15-Pentaoxaheptadecane-1,17-diaminium, N,N,N',N'-tetrabutyl-N,N'-dimethyl-4,14-dioxo-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

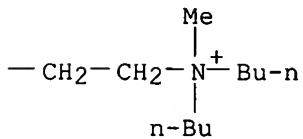
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CMF C30 H62 N2 O7

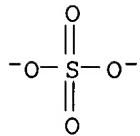
PAGE 1-A



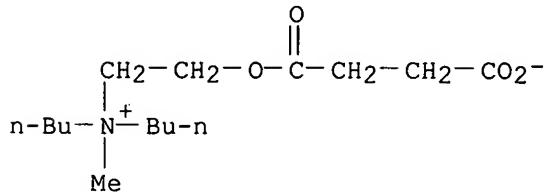
PAGE 1-B



CM 2

CRN 14808-79-8
CMF O4 S

RN 742096-64-6 CAPLUS
 CN 1-Butanaminium, N-butyl-N-[2-[3-carboxy-1-oxo(tetrapropenyl)propoxy]ethyl]-N-methyl-, inner salt (9CI) (CA INDEX NAME)

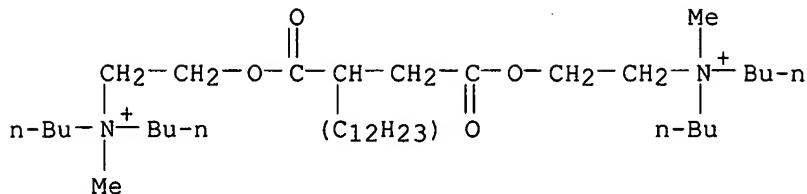
D1- (C₁₂H₂₃)

RN 742096-67-9 CAPLUS
 CN 1-Butanaminium, N,N'-[1,4-dioxo-2-(tetrapropenyl)-1,4-butanediyl]bis(oxy-2,1-ethanediyl)]bis[N-butyl-N-methyl-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

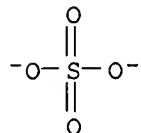
CRN 742096-66-8

CMF C38 H76 N2 O4
 CCI IDS



CM 2

CRN 14808-79-8
 CMF O4 S



IC ICM E21B037-06
 ICS C07C007-20

CC 51-5 (Fossil Fuels, Derivatives, and Related Products)

ST quaternized alkylaminoethanol alkenylsuccinate ester natural gas
 hydrate inhibitor; betaine inner salt natural
 gas hydrate inhibitor; butylaminoethanol
 quaternized alkenylsuccinate ester gas hydrate
 inhibitor

IT Alcohols, uses
 RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or
 reagent); USES (Uses)
 (amino, reaction products, N,N-dialkylamino derivs., reaction products
 with alkenylsuccinic anhydride; betaine inner salts as corrosion
 inhibitors and natural gas hydrate
 inhibitors with improved water solubility and biodegradability)

IT Corrosion inhibitors
 (betaine inner salts as corrosion inhibitors and natural
 gas hydrate inhibitors with improved water
 solubility and biodegradability)

IT Inclusion reaction
 (clathration, of natural gas, inhibitors for; betaine inner salts as
 corrosion inhibitors and natural gas
 hydrate inhibitors with improved water solubility and
 biodegradability)

IT Natural gas hydrates
 RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
 (formation of, inhibitors for; betaine inner salts as
 corrosion inhibitors and natural gas
 hydrate inhibitors with improved water solubility and
 biodegradability)

IT 25189-83-7, Poly(vinylcaprolactam)
 RL: MOA (Modifier or additive use); USES (Uses)
 (corrosion inhibitor and natural gas

hydrate inhibitor; betaine inner salts as corrosion
 inhibitors and natural gas hydrate
 inhibitors with improved water solubility and biodegradability)

IT 742087-35-0P 742096-64-6P 742096-67-9P
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (corrosion inhibitor and natural gas
 hydrate inhibitor; betaine inner salts as corrosion
 inhibitors and natural gas hydrate
 inhibitors with improved water solubility and biodegradability)

IT 742087-33-8P 742096-60-2P 742096-62-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and quaternization of; betaine inner salts as corrosion
 inhibitors and natural gas hydrate
 inhibitors with improved water solubility and biodegradability)

L14 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:700322 CAPLUS

DOCUMENT NUMBER: 141:209795

TITLE: Betaine inner salts as corrosion **inhibitors**
 and natural **gas hydrate**
inhibitors with improved water solubility and
 biodegradability

INVENTOR(S): Dahlmann, Uwe; Feustel, Michael

PATENT ASSIGNEE(S): Clariant GmbH, Germany

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1450003	A1	20040825	EP 2004-2383	20040204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
DE 10307728	A1	20040909	DE 2003-10307728	20030224
DE 10307728	B4	20050922		
NO 2004000583	A	20040825	NO 2004-583	20040209
US 2005101495	A1	20050512	US 2004-783153	20040220
PRIORITY APPLN. INFO.:			DE 2003-10307728	A 20030224

OTHER SOURCE(S): MARPAT 141:209795

ED Entered STN: 27 Aug 2004

AB Corrosion **inhibitors** and natural **gas hydrate**
inhibitors are compds. of general formula R1R2R3N+-B-X-C(:O)-D-
 C(:O)-Y-R4, in which: (1) R1,R2 = C1-22-alkyl, C2-22-alkenyl, C6-30-aryl,
 or C7030-alkylaryl, (2) R3 = C1-22-alkyl, C2-22-alkenyl, C6-30-aryl, or
 C7-30-alkylaryl, -CHR5-COO-, or -O-, (3) R4 = M, H, or
 C1-100-heteroatom-containing substituent (M is a cation), (4) B is optionally
 substituted C1-10-alkyl, (5) D = -CH2CH2 or C1-600-substituted ethylene
 group, (6) X,Y = -O- or -NR6-, and (7) R5,R6 = H, C1-22-alkyl,
 C2-22-alkenyl, C6-30-aryl, or C7-300-alkylaryl. The compds. are typically
 prepared by conversion of a corresponding alkenylsuccinic anhydride with a
 N,N-dialkylaminoalkanol (especially (N,N-dialkylamino)ethanolamine), to give

the

mono- or bisderiv., which is then quaternized.

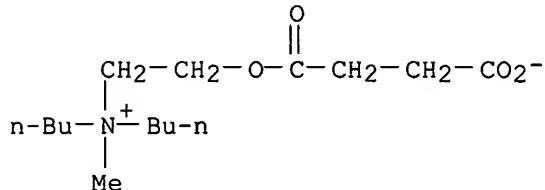
IT 742096-64-6P 742096-65-7P 742096-67-9P
 742096-69-1P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(synthesis of, as corrosion inhibitors and natural
gas hydrate inhibitors; betaine inner salts
as corrosion inhibitors and natural gas
hydrate inhibitors with improved water solubility and
biodegradability)

RN 742096-64-6 CAPLUS

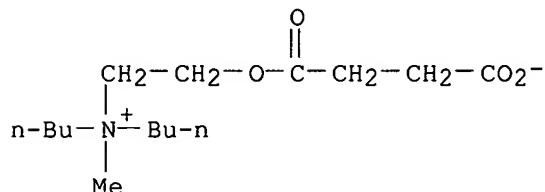
CN 1-Butanaminium, N-butyl-N-[2-[3-carboxy-1-oxo(tetrapropenyl)propoxy]ethyl]-
N-methyl-, inner salt (9CI) (CA INDEX NAME)



D1- (C₁₂H₂₃)

RN 742096-65-7 CAPLUS

CN 1-Butanaminium, N-butyl-N-[2-[3-carboxy-1-oxo(pentapropenyl)propoxy]ethyl]-
N-methyl-, inner salt (9CI) (CA INDEX NAME)



D1- (C₁₅H₂₉)

RN 742096-67-9 CAPLUS

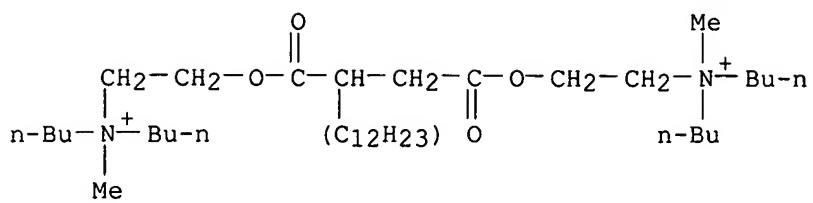
CN 1-Butanaminium, N,N'-[[1,4-dioxo-2-(tetrapropenyl)-1,4-butanediyl]bis(oxy-
2,1-ethanediyl)]bis[N-butyl-N-methyl-, sulfate (1:1) (9CI) (CA INDEX
NAME)]

CM 1

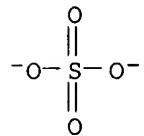
CRN 742096-66-8

CMF C38 H76 N2 O4

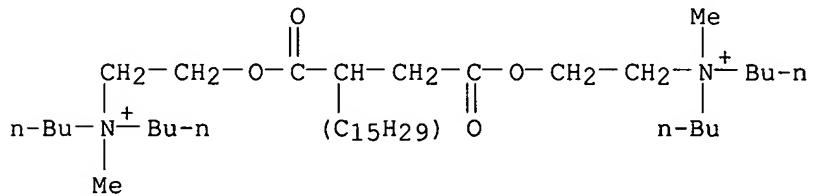
CCI IDS



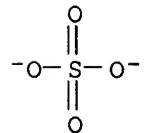
CM 2

CRN 14808-79-8
CMF O4 SRN 742096-69-1 CAPLUS
CN 1-Butanaminium, N,N'-[1,4-dioxo-2-(pentapropenyl)-1,4-butanediyl]bis(oxy-2,1-ethanediyl) bis[N-butyl-N-methyl-, sulfate (1:1) (9CI) (CA INDEX NAME)]

CM 1

CRN 742096-68-0
CMF C41 H82 N2 O4
CCI IDS

CM 2

CRN 14808-79-8
CMF O4 S

IC ICM E21B037-06

ICS E21B041-02; C23F011-14; C10L003-06; C07C227-00; C07C229-02;
C07C233-00

CC 51-5 (Fossil Fuels, Derivatives, and Related Products)

ST quaternized alkylaminoethanol alkenylsuccinate ester corrosion inhibitor; betaine inner salt natural **gas hydrate inhibitor**; butylaminoethanol quaternized alkenylsuccinate ester corrosion inhibitor

IT Alcohols, uses
RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(amino, reaction products, N,N-dialkylamino derivs., reaction products with alkenylsuccinic anhydride; betaine inner salts; betaine inner salts as corrosion **inhibitors** and natural **gas hydrate inhibitors** with improved water solubility and biodegradability)

IT Corrosion inhibitors
(betaine inner salts as corrosion **inhibitors** and natural **gas hydrate inhibitors** with improved water solubility and biodegradability)

IT Inclusion reaction
(clathration, of natural gas, inhibitors for; betaine inner salts as corrosion **inhibitors** and natural **gas hydrate inhibitors** with improved water solubility and biodegradability)

IT Natural gas hydrates
RL: MSC (Miscellaneous)
(formation of, **inhibitors** for; betaine inner salts as corrosion **inhibitors** and natural **gas hydrate inhibitors** with improved water solubility and biodegradability)

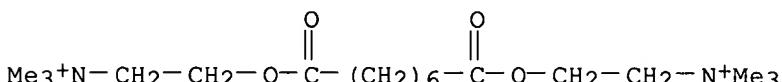
IT 742096-60-2P 742096-61-3P 742096-62-4P 742096-63-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and quaternization of; betaine inner salts as corrosion **inhibitors** and natural **gas hydrate inhibitors** with improved water solubility and biodegradability)

IT 110-15-6DP, Succinic acid, polyisobutylene derivs., mono- and bis(2-dibutylmethylammonio)ethyl esters, sulfates 742096-64-6P
742096-65-7P 742096-67-9P 742096-69-1P
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(synthesis of, as corrosion **inhibitors** and natural **gas hydrate inhibitors**; betaine inner salts as corrosion **inhibitors** and natural **gas hydrate inhibitors** with improved water solubility and biodegradability)

L14 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:282001 CAPLUS
DOCUMENT NUMBER: 141:57637
TITLE: Pyridine-phenolic resin corrosion inhibitor for ferrous metals in subacid media
INVENTOR(S): Shelegov, B. V.; Fonberg, V. M.; Miroshnichenko, L. E.; Grek, V. V.
PATENT ASSIGNEE(S): Ukraine
SOURCE: Russ., No pp. given
CODEN: RUXXE7
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2225461	C2	20040310	RU 2001-132126	20011126
PRIORITY APPLN. INFO.:			RU 2001-132126	20011126
ED	Entered STN: 06 Apr 2004			
AB	The invention is suitable in the production of oil and gas for corrosion protection of pressure maintenance systems and utilization of waste water systems. The inhibitor contains mixture of coal pyridine bases and phenolic resin-byproduct of process of production of synthetic phenol by the Cumol method; monat. iso-alcs. C3-C5 (e.g., benzene-toluene-xylyl) are used as solvent. During mixing, many organic agents are formed in the form of strong-protective film on metal surface. The resulting inhibitor provides enhanced efficiency at min. concentration of inhibitor.			
IT	3810-71-7, D6 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses) (corrosion inhibitor; pyridine-phenolic resin corrosion inhibitor for ferrous metals in subacid media)			
RN	3810-71-7 CAPLUS			
CN	Ethanaminium, 2,2'-(1,8-dioxo-1,8-octanediyloxy)bis[N,N,N-trimethyl-, diiodide (9CI) (CA INDEX NAME)			



●2 I-

IC ICM C23F011-04
 ICS C23F011-14
 CC 55-10 (Ferrous Metals and Alloys)
 Section cross-reference(s): 51
 IT Corrosion inhibitors
 Corrosion prevention
 (pyridine-phenolic resin corrosion inhibitor for ferrous metals in subacid media)
 IT 3810-71-7, D6
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (corrosion inhibitor; pyridine-phenolic resin corrosion inhibitor for ferrous metals in subacid media)

L14 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1975:606793 CAPLUS
 DOCUMENT NUMBER: 83:206793
 TITLE: Functional ionic polyelectrolyte compositions
 INVENTOR(S): Schaper, Raymond J.
 PATENT ASSIGNEE(S): Cagon Corp., USA
 SOURCE: Ger. Offen., 45 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent

LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2502914	A1	19750731	DE 1975-2502914	19750124
DK 7406596	A	19750929	DK 1974-6596	19741218
SE 7500161	A	19750925	SE 1975-161	19750108
NL 7500325	A	19750729	NL 1975-325	19750110
CA 1057892	A1	19790703	CA 1975-217890	19750114
GB 1479786	A	19770713	GB 1975-2449	19750120
FR 2320330	A1	19770304	FR 1975-1915	19750122
FR 2320330	B1	19790810		
CH 600039	A	19780615	CH 1975-864	19750124
JP 50107100	A2	19750823	JP 1975-10174	19750125
US 4166894	A	19790904	US 1977-852406	19771117
PRIORITY APPLN. INFO.:			US 1974-436419	A 19740125
			US 1976-676777	A3 19760414

ED Entered STN: 12 May 1984

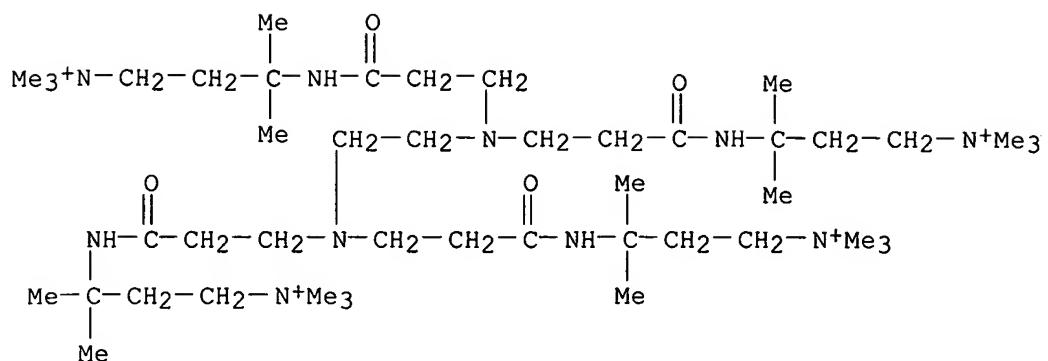
AB Carboxamide-containing quaternary ammonium polymers were prepared by treating tetrasubstituted diamines from ethylenediamines and acrylamide (I) [79-06-1] or acrylamide-containing compds. with 1,4-dibromobutane (II). The polymers were useful as electroconducting coatings for paper, as strengthening agents for paper, and as corrosion inhibitors. Thus, 3,3',3'',3'''-(ethylenedinitrilo)tetrapropionamide (III) [4097-84-1], prepared via Michael addition reaction of NH₂CH₂CH₂NH₂ [107-15-3] with I, was refluxed with II at 95-100° for 136 hr to give II-III quaternary copolymer (III) [57350-68-2]. Paper coated with III had a surface resistance >1015 ohm (at 13% relative humidity) at coating weight 0.726 kg/279 m². III was also used as wet and dry strengthening agents for paper. The rate of corrosion of a metal electrode in an air and H₂O environment was 59 mg/cm²/day in the presence of 100 ppm III, in comparison to 90-5 mg/cm²/day in the absence of III.

IT 57350-69-3P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with dibromobutane)

RN 57350-69-3 CAPLUS

CN 4,8,11,15-Tetraazaoctadecane-1,18-diaminium, 8,11-bis[3-[1,1-dimethyl-3-(trimethylammonio)propyl]amino]-3-oxopropyl]-N,N,N',N',N',N',3,3,16,16-decamethyl-5,14-dioxo-, tetrachloride (9CI) (CA INDEX NAME)



● 4 Cl⁻

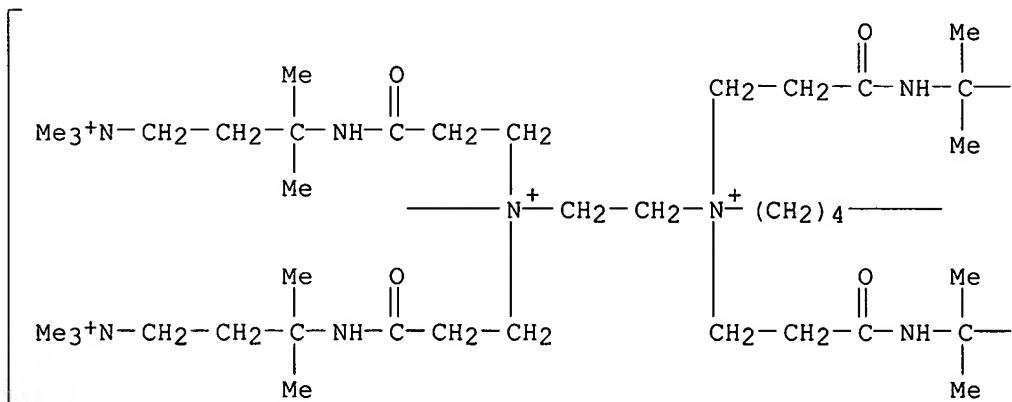
IT 57344-11-3P 57350-70-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and uses of)

RN 57344-11-3 CAPLUS

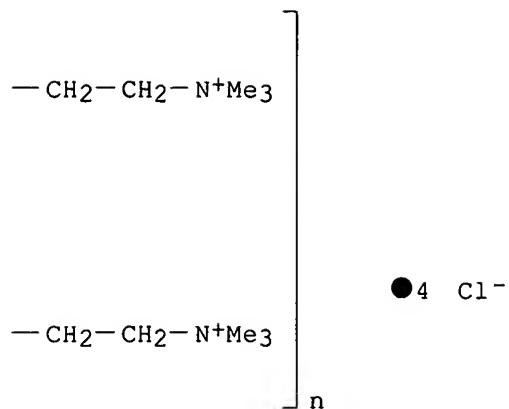
CN Poly[[bis[3-[1,1-dimethyl-3-(trimethylammonio)propyl]amino]-3-oxopropyl]iminio]-1,2-ethanediyl[bis[3-[1,1-dimethyl-3-(trimethylammonio)propyl]amino]-3-oxopropyl]iminio]-1,4-butanediyl dibromide tetrachloride] (9CI) (CA INDEX NAME)

PAGE 1-A



● 2 Br⁻

PAGE 1-B



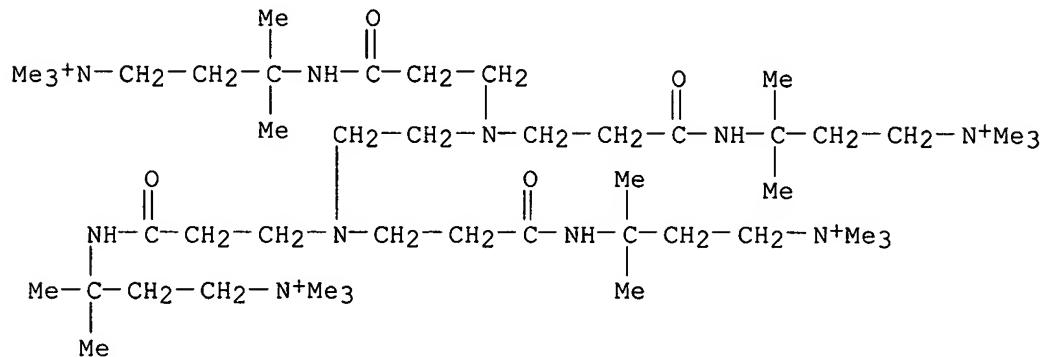
RN 57350-70-6 CAPLUS

CN 1-Butanaminium, 3,3',3'',3'''-[1,2-ethanediylbis[nitrilobis[(1-oxo-3,1-propanediyl)imino]]]tetrakis[N,N,N,3-tetramethyl-, tetrachloride, polymer with 1,4-dibromobutane (9CI) (CA INDEX NAME)

CM 1

CRN 57350-69-3

CMF C46 H100 N10 O4 . 4 Cl



● 4 Cl⁻

CM 2

CRN 110-52-1
CMF C4 H8 Br2

$$\text{Br} - (\text{CH}_2)_4 - \text{Br}$$

IC C07C; D21H

CC 35-3 (Synthetic High Polymers)
IT **Corrosion inhibitors**
(for metals, carboxamido-containing quaternary ammonium polymers as)
IT 4097-84-1P 57350-69-3P 57356-17-9P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with dibromobutane)
IT 57344-11-3P 57344-12-4P 57344-13-5P 57350-68-2P
57350-70-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and uses of)

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L1 STR
L2 SCR 2040
L4 2675 SEA FILE=REGISTRY SSS FUL L1 AND L2
L13 275 SEA FILE=CAOLD ABB=ON PLU=ON L4

=> d his full

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D SAVED

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ACTIVATE VAL188STR/Q

L1 STR

D L1
L*** DEL 1 S L1 SAMPLE
L2 SCREEN 2040
L3 10 SEA SSS SAM L1 AND L2
D SCAN
L4 2675 SEA SSS FUL L1 AND L2
SAVE L4 VAL188FU/A TEMP

FILE 'CAPLUS' ENTERED AT 17:21:59 ON 02 JUN 2006
L5 2863 SEA ABB=ON PLU=ON L4
L6 337 SEA ABB=ON PLU=ON GAS HYDRATE (3A) INHIBIT?
L7 2 SEA ABB=ON PLU=ON L5 AND L6
L8 28 SEA ABB=ON PLU=ON L5 AND PRY>2003
L9 462 SEA ABB=ON PLU=ON GAS? (3A) HYDRAT? (3A) INHIBIT?
L10 2 SEA ABB=ON PLU=ON L5 AND L9
D SCAN
E CORROSION INHIBITORS+ALL/CT
L11 21269 SEA ABB=ON PLU=ON CORROSION INHIBITORS+PFT/CT
L12 4 SEA ABB=ON PLU=ON L5 AND L11
L*** DEL 2 S L12 NOT L10
D SCAN

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L13 275 SEA ABB=ON PLU=ON L4
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L14 4 SEA ABB=ON PLU=ON L10 OR L12
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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

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